

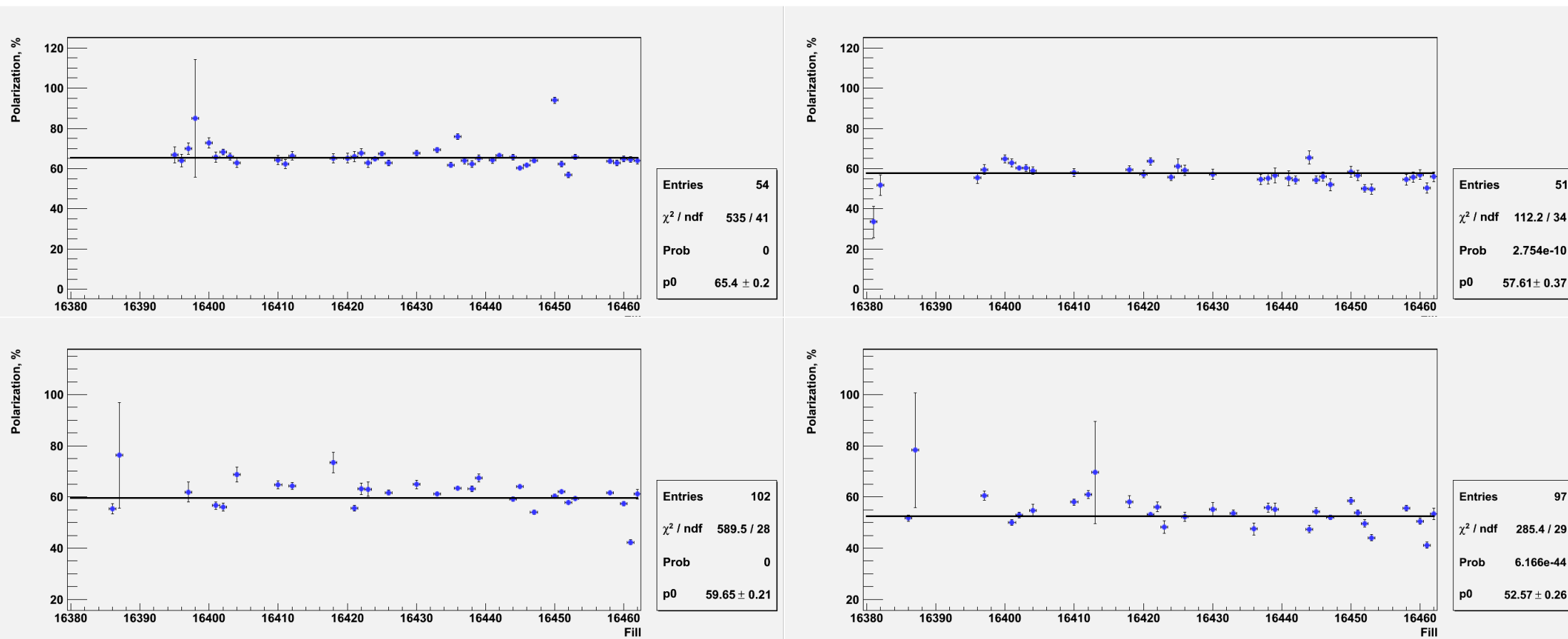
RHIC Polarimetry: p-Carbon Status

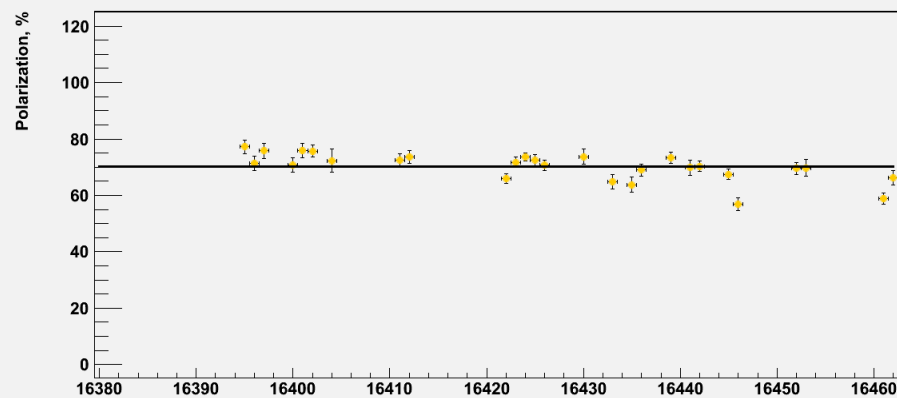
Dmitri Smirnov

for the CNI polarimetry group

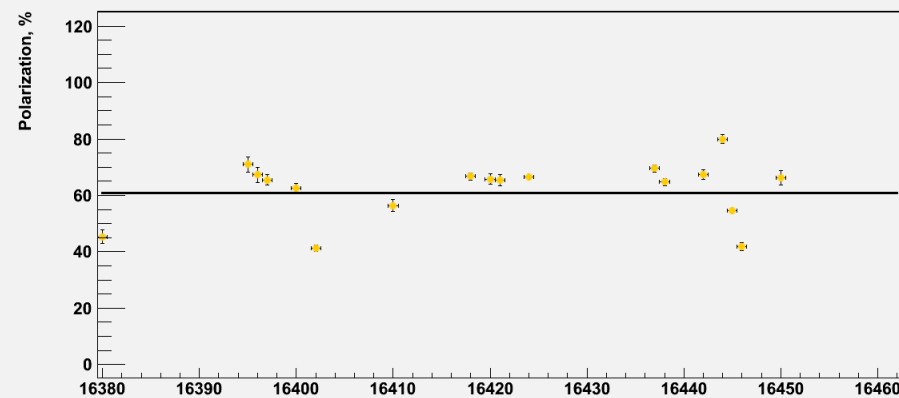
February 24, 2012

- **Since last report:**
 - The beam induced noise is still present in some measurements
 - Increased energy thresholds
 - This does not help if the noise in the kinematic region
 - Trying to find a pattern to identify the source
 - Developing filter to reject noisy channels automatically
 - In offline calculate polarization for various detector configurations such as X90, X45, X45T, X45B
 - Recovered a couple of low gain channels in Blue-2

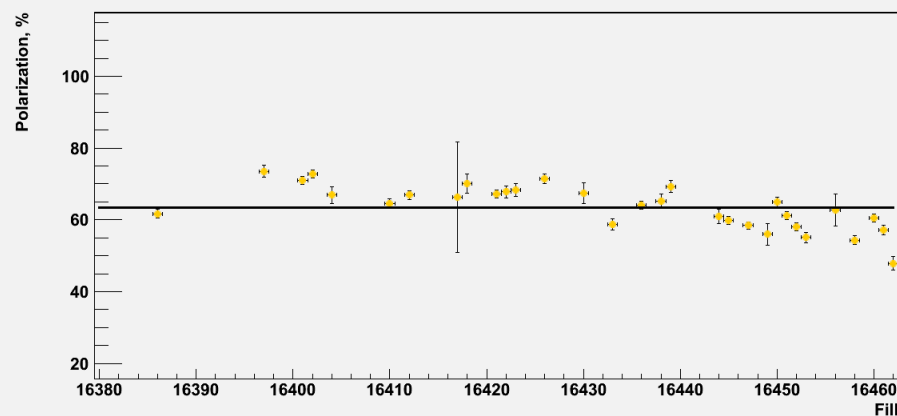




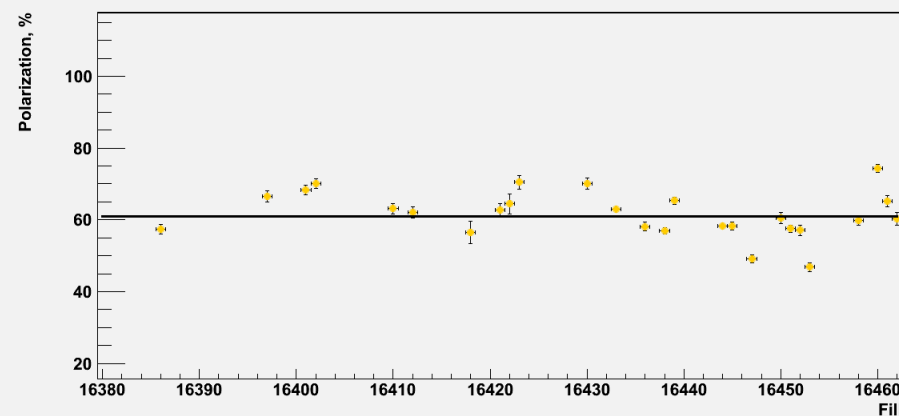
Entries	38
χ^2 / ndf	131.1 / 26
Prob	5.387e-16
p0	70.08 ± 0.42



Entries	32
χ^2 / ndf	859.7 / 17
Prob	0
p0	60.95 ± 0.36



Entries	97
χ^2 / ndf	517.7 / 30
Prob	0
p0	63.43 ± 0.25



Entries	83
χ^2 / ndf	618.2 / 25
Prob	0
p0	60.96 ± 0.25

Average Polarization

Polarimeter	24 GeV	100 GeV
B1U	65	60
Y1D	70	63
B2D	58	53
Y2U	61	61

- Numbers are not consistent. Will compare after the noise clean up

